

COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

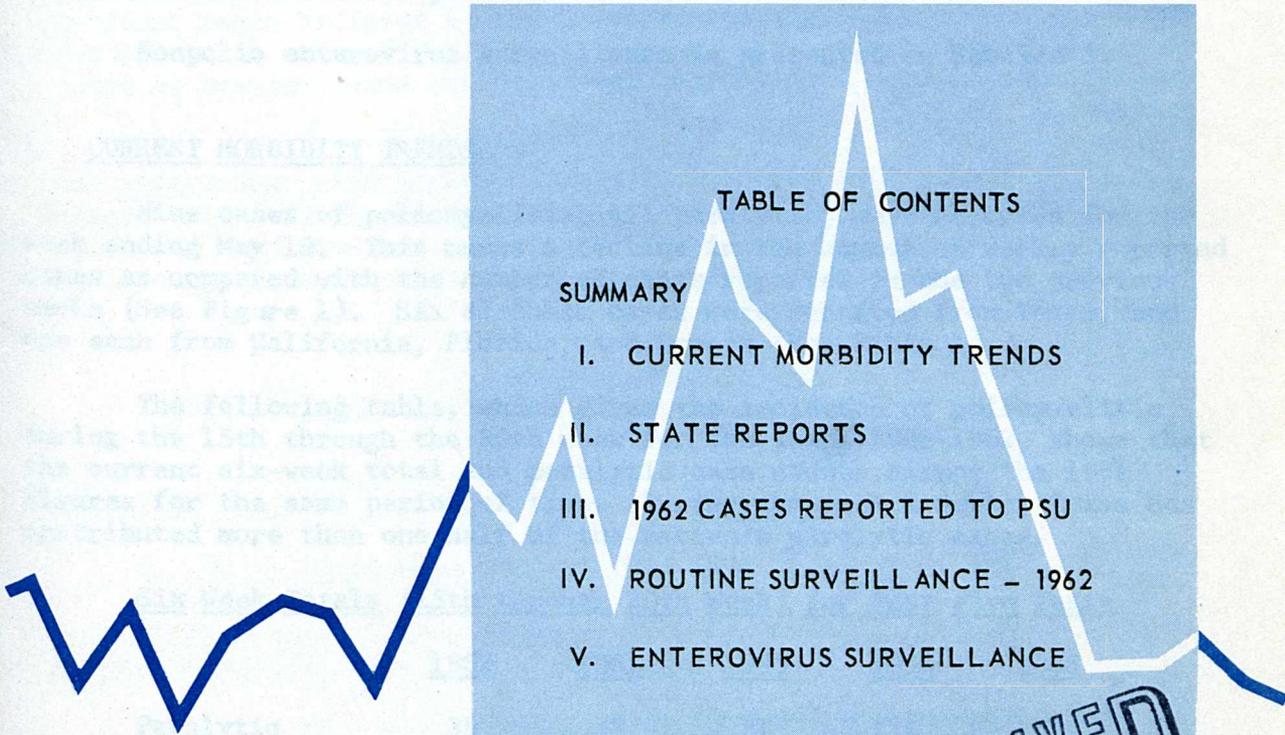


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PREFACE

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to:
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SUMMARY

During the week ending May 19, nine cases of poliomyelitis, all paralytic, were reported. This represents a decline from the twelve cases reported during the previous week.

Cases continue to be reported from south Texas. A discussion of these and description of a crash oral poliovaccine immunization program in Webb County (Laredo) are presented in Section 2.

A summary of isolates obtained from 1962 cases is presented in Section 3. Poliovirus type I continues to predominate accounting for over 75 percent of isolates reported.

Nonpolio enterovirus surveillance is presented in Section 5.

1. CURRENT MORBIDITY TRENDS

Nine cases of poliomyelitis, all paralytic, were reported for the week ending May 19. This marks a decline in the number of weekly reported cases as compared with the number of cases reported in the two previous weeks (See Figure 1). Six of these cases were reported from Texas, and one each from California, Florida, and Oregon (See Table I).

The following table, which gives the incidence of poliomyelitis during the 15th through the 20th week for the years 1958-1962, shows that the current six-week total and paralytic case counts mirror the 1961 figures for the same period of time. During the past 6 weeks, Texas has contributed more than one-half of the nation's paralytic cases.

Six Week Totals (15th through 20th Week) for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	38	38	51	113	53
Total	47	48	72	168	111

The table below compares the current cumulative poliomyelitis experience with those of past years. Of the 93 paralytic cases reported thus far in 1962, 71 have had onset since January 1.

Polio (Cumulated Weekly) through 20th Week for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	93	107	215	337	184
Total	126	160	299	483	345

2. REPORT - TEXAS

The six paralytic cases reported by Texas this week include four from Bexar County (San Antonio), and one each from Webb and Hidalgo Counties. According to Dr. Van C. Tipton, Director, Division of Communicable Disease Control, the Bexar County total in 1962 now stands at ten paralytic cases, seven with onsets in May. Virologic study is in progress. Two additional suspect cases are under observation.

In Webb County (Laredo), 100,000 doses of type I epidemic reserve oral poliovaccine are being offered in a crash immunization program beginning Sunday, May 27. Dr. James Bryan, CDC Polio Surveillance Unit, and Mr. George Stenhouse, CDC Information Officer, are assisting State and local health officials in this program. A total of eight paralytic cases, four with May onsets, has been reported thus far from Webb County, and evidence of type I poliovirus infection has been obtained in four patients.

The single case report from Hidalgo County this week brings that county total to four paralytic cases. Thus in the south Texas counties of Bexar, Webb, and Hidalgo, twenty-two paralytic cases have been reported to date. Most of the patients are unvaccinated pre-school age children as shown in the following table.

<u>Age Group</u>	<u>Vaccination History</u>				<u>Total</u>
	<u>0</u>	<u>1-2</u>	<u>3+</u>	<u>Unk.</u>	
0-4	12	1	0	1	14
5-9	4	0	1	0	5
10-19	0	2	0	0	2
20+	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	17	3	1	1	22

3. 1962 POLIOMYELITIS REPORTED TO PSU

Of the 93 cases of paralytic poliomyelitis reported thus far in 1962, 71 had onset since January 1. Twenty-two cases represent delayed reports with onsets of illness in 1961.

Fifteen poliovirus isolates have been obtained thus far from the 71 paralytic cases. Of these, 12 are type I and 3 are type III polioviruses. These isolates are listed on the following page by geographic location and month of onset.

<u>County</u>	<u>Month of Onset</u>	<u>Isolation</u>
Maricopa Co., Arizona	February	Type I
Maricopa Co., Arizona	February	Type I
Hopkins Co., Kentucky	March	Type III
Jeff Davis Co., Louisiana	January	Type I
Jefferson Co., Louisiana	February	Type I
Montgomery Co., New York	January	Type I
Montgomery Co., New York	January	Type I
Wyoming Co., New York	January	Type I
Mahoning Co., Ohio	February	Type III
San Patricio Co., Texas	January	Type III
Webb Co., Texas	March	Type I
Webb Co., Texas	March	Type I
Webb Co., Texas	May	Type I
San Juan Co., Utah	January	Type I

The Poliomyelitis Surveillance Unit has received individual case forms on 47 of the 71 paralytic cases with onset in 1962. Over 60 percent of these cases have been unvaccinated as follows:

	<u>Vaccination Status</u>					<u>Total</u>
	<u>OV</u>	<u>1-2V</u>	<u>3V</u>	<u>4+V</u>	<u>Unk.</u>	
1962 Paralytic Cases:	28	9	4	4	2	47

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

A. Cases With Onset Within 30 Days of Vaccination (Inactivated)

Through May 19, 1962, there have been no under-30-day cases (IPV) reported to the Poliomyelitis Surveillance Unit

B. Cases With Onset Within 30 Days of Vaccination (Oral)

The case of paralytic poliomyelitis reported during the current week from Oregon had received oral vaccine within 30 days prior to onset of symptoms. This case, from Portland, is a 48 year old female who had onset of symptoms on May 8 with subsequent paralysis in both legs. This patient received type I oral vaccine on April 1 and type III oral vaccine on April 28 during a community program.

There have now been two under-30 day cases (OPV) officially reported to the Poliomyelitis Surveillance Unit in 1962.

C. Vaccine Distribution

A summary of current and cumulative shipments of poliomyelitis and multiple antigen vaccine through April 1962 is presented in Table II at the end of this report.

A total of one million doses of inactivated doses of inactivated vaccine was released during the month of April. During this month 3.3 million doses were shipped for domestic use and another 0.2 million doses for export. There were 3 million doses (2.5 million cc's) unshipped at the end of the month.

5. ENTEROVIRUS SURVEILLANCE

A total of 46 nonpolio enterovirus isolates from 1962 specimens has been reported to the Poliomyelitis Surveillance Unit thus far. Of the thirty Coxsackie isolates sixteen Coxsackie A and four Coxsackie B-5 isolates have been reported from Hawaii. Nine ECHO subtypes have been reported from California. No neighborhood concentrations or family clusters have been recognized. A listing of isolates is presented below.

NONPOLIO ENTEROVIRUS ISOLATES REPORTED DURING 1962

<u>State</u>	<u>ECHO*</u>	<u>Coxsackie**</u>	<u>Total</u>	<u>Reported by</u>
California	9	1	10	E. Lennette
Florida	2	2	4	J. Bond
Hawaii	-	20	20	K. Wilcox & J. Enright
Louisiana	2	-	2	G. Hauser
Michigan	2	-	2	G. Agate
Missouri	-	1	1	I. Adams
New Jersey	1	5	6	W. Dougherty & M. Goldfield
Pennsylvania	-	<u>1</u>	<u>1</u>	I. Gratch & K. Hummeler
TOTAL	16	30	46	

* Specific types include two ECHO 4 from Florida, and one from California; two ECHO 22 from California; two ECHO 14 from Michigan; two ECHO 9 from Louisiana. Other scattered types include ECHO 2, 10, 11, 18, 20.

** Specific types include sixteen Coxsackie A (various subtypes) from Hawaii, four Coxsackie B5 from New Jersey and four from Hawaii. Other scattered types are B2, B3, and B4.

Figure 1 CURRENT U.S. POLIO INCIDENCE
 COMPARED WITH YEARS 1957, 1959, and 1961

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS
 AND COMMUNICABLE DISEASE CENTER

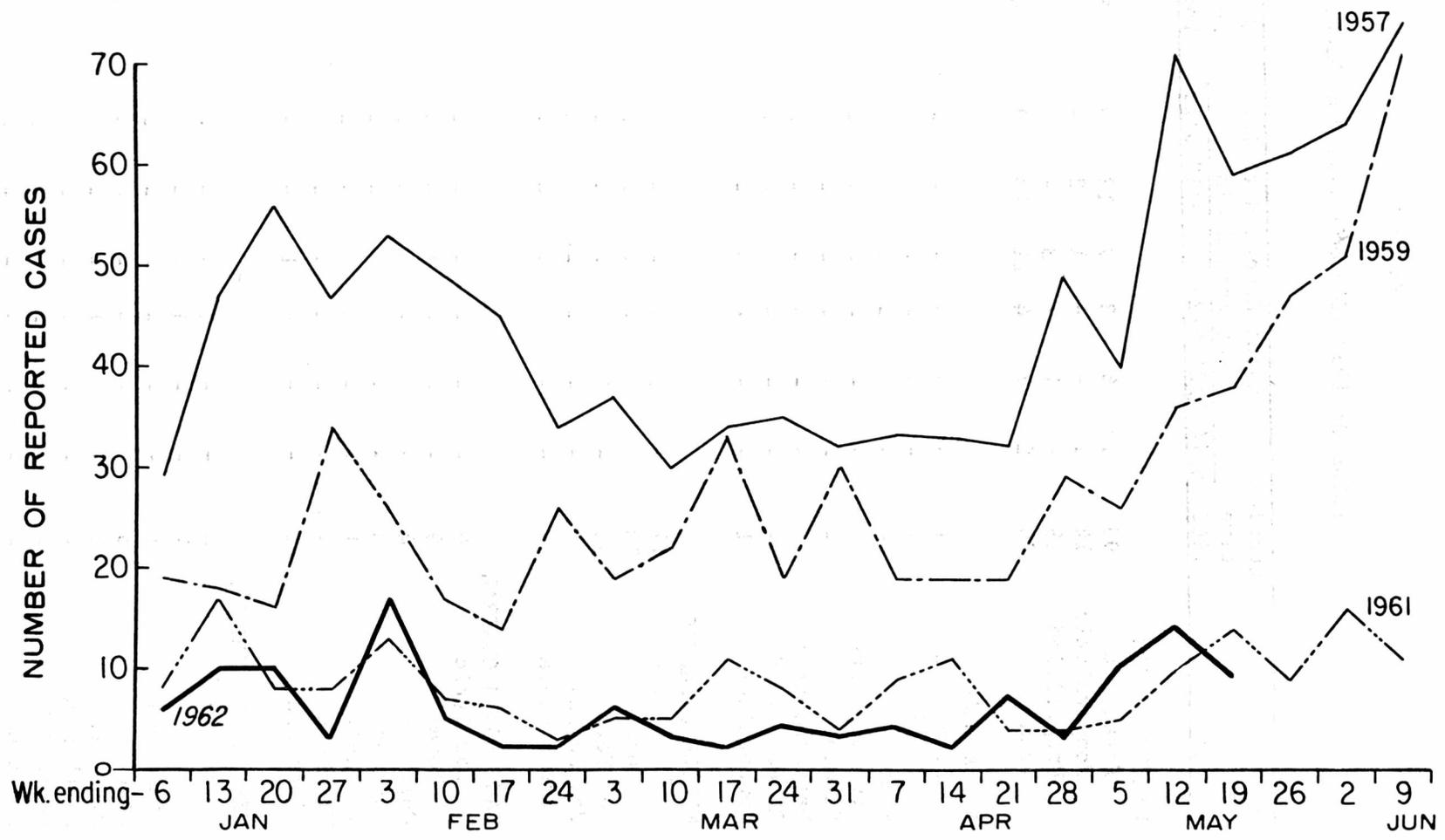


Table I (Continued)

State and Region	Cumulative 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		4/14	4/21	4/28	5/5	5/12	5/19		1961	1960	1959
SOUTH ATLANTIC											
Paralytic	8	-	-	1	-	1	1	3	2	2	31
Total	10	1	-	1	1	1	1	5	2	4	40
Delaware	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-
D. C.	-	-	-	-	-	-	-	-	-	-	-
Virginia	2	-	-	1	-	-	-	1	-	-	4
West Virginia	-	-	-	-	-	-	-	-	-	-	2
North Carolina	2	-	-	-	1	-	-	1	1	1	3
South Carolina	1	-	-	-	-	-	-	-	1	-	2
Georgia	2	-	-	-	-	1	-	1	-	1	2
Florida	3	1	-	-	-	-	1	2	-	2	27
EAST SOUTH CENTRAL											
Paralytic	3	-	1	-	-	-	-	1	1	4	4
Total	5	-	1	-	1	-	-	2	2	4	9
Kentucky	1	-	1	-	-	-	-	1	1	-	1
Tennessee	2	-	-	-	1	-	-	1	1	1	4
Alabama	-	-	-	-	-	-	-	-	-	-	-
Mississippi	2	-	-	-	-	-	-	-	-	3	4
WEST SOUTH CENTRAL											
Paralytic	36	1	4	-	5	7	6	23	9	9	26
Total	39	1	4	-	5	8	6	24	12	14	37
Arkansas	1	-	1	-	-	-	-	1	-	-	5
Louisiana	5	-	1	-	-	-	-	1	3	3	2
Oklahoma	-	-	-	-	-	-	-	-	-	2	1
Texas	33	1	2	-	5	8	6	22	9	9	29
MOUNTAIN											
Paralytic	5	-	-	-	-	1	-	1	1	-	6
Total	9	-	1	1	1	1	-	4	3	4	8
Montana	2	-	-	-	-	-	-	-	-	2	-
Idaho	-	-	-	-	-	-	-	-	1	-	-
Wyoming	-	-	-	-	-	-	-	-	-	1	-
Colorado	-	-	-	-	-	-	-	-	-	-	-
New Mexico	3	-	1	1	1	-	-	3	-	1	1
Arizona	3	-	-	-	-	1	-	1	1	-	6
Utah	1	-	-	-	-	-	-	-	1	-	1
Nevada	-	-	-	-	-	-	-	-	-	-	-
PACIFIC											
Paralytic	13	-	-	1	2	3	2	8	13	18	22
Total	16	-	-	1	2	4	2	9	14	21	26
Washington	-	-	-	-	-	-	-	-	4	1	1
Oregon	1	-	-	-	-	-	1	1	1	1	5
California	14	-	-	1	2	4	1	8	8	18	19
Alaska	-	-	-	-	-	-	-	-	-	-	-
Hawaii	1	-	-	-	-	-	-	-	1	1	1
TERRITORY											
Puerto Rico	5	-	-	-	-	-	-	-	1	69	-

Table II

THE NATIONAL FOUNDATION

MONTHLY REPORT OF POLIOMYELITIS VACCINE RELEASED AND SHIPPED*
(1,000 cc's)April 1962

	<u>SINGLE ANTIGEN</u>		<u>MULTIPLE ANTIGEN</u>		<u>TOTAL</u>	
	<u>This Month</u>	<u>To Date</u>	<u>This Month</u>	<u>To Date</u>	<u>This Month</u>	<u>To Date</u>
CC. Released	1,039	523,297	0	15,843	1,039	539,140
CC. Shipped						
National Foundation	30	14,293	0	0	30	14,293
Public Agencies	1,255	190,268	1	1,416	1,256	191,684
Commercial Channels	<u>1,992</u>	<u>193,039</u>	<u>59</u>	<u>13,481</u>	<u>2,051</u>	<u>206,520</u>
Domestic Total	3,277	397,600	60	14,897	3,337	412,497
Export	237	111,776	0	634	237	112,410

CC. UNSHIPED END OF MONTH**
(1,000 cc's)

	<u>1960</u>	<u>1961</u>	<u>1962</u>
January	19,459	14,755	4,963
February	20,965	15,737	5,220
March	27,062	13,414	5,142
April	27,216	10,887	2,523
May	24,846	6,448	
June	24,620	6,558	
July	23,830	4,233	
August	24,525	4,599	
September	23,091	6,181	
October	19,565	5,543	
November	16,319	5,139	
December	15,669	4,038	

* Includes manufacturers' adjustments of previously reported figures.

** Excludes outdated vaccine removed from inventory.